

CLAIMS

1. A writing instrument comprising a tubular body (2) extending along a longitudinal axis (X) between a rear end and a front end (2a) provided with an opening through which a writing tip is capable of protruding, a lateral button (7) having at least one actuation face (9) oriented radially outward and at least one first cam (11) arranged inside the body, and a writing tip advancing mechanism comprising a member (20) longitudinally movable in the body, which has at least a first ramp (23) inclined relative to the longitudinal axis, said lateral button (7) being capable of remaining in a rest position in which the first cam is facing the first ramp, and capable of making a first tilting movement toward the inside of the body during which the first cam interacts with the first ramp and the movable member makes a first movement, characterized in that the lateral button (7) has at least a second cam (12) longitudinally distant from said first cam (11) and in that the movable member (20) has a bearing (25) substantially parallel to the longitudinal axis that is adjacent to at least one second inclined ramp (26), said second cam (12) resting on the bearing during the first tilting movement of the lateral button, and facing the second ramp at the end of the first tilting movement, said lateral button then being capable of making a second tilting movement toward the inside of the body during which the second cam (12) interacts with the second ramp (26) and the movable member makes a second movement.

2. The writing instrument as claimed in claim 1, wherein the body has an abutment (27), and wherein the first cam has at least one contact point (28) that is in contact against said abutment of the body during the second tilting movement of the lateral button.

3. The writing instrument as claimed in claim 1 or 2, wherein at least one of the ramps (23, 26) of the movable member has a height, measured in a radial direction, substantially equal to the internal space of the tubular body.

4. The writing instrument as claimed in any one of claims 1 to 3, wherein the lateral button (7) has, respectively at the first and the second cams, a first and a second U-shaped cross section, the ends of the branches of the U of said first and second cross sections forming respectively said first and second cams (11, 12).

5. The writing instrument as claimed in any one of claims 1 to 4, wherein the first ramp (23) of the movable member is situated at the front end (2a) of the body and the second ramp (26) is situated at the rear end (2b).

6. The writing instrument as claimed in any one of claims 1 to 5, wherein the advancing mechanism comprises an elastic element (19) which forces the movable member (20) toward the rear end of the body, the incline of the first and second ramps (23, 26) being adapted so that the first and second movements are made toward the front end of the body.

7. The writing instrument as claimed in claim 6, wherein the writing tip is a lead (6) and wherein the advancing mechanism comprises a lead clamping chuck (30) that is connected to the movable member (20).

8. The writing instrument as claimed in claim 7, wherein the chuck (30) is held closed under the action of at least one elastic element (19) which forces said chuck and the movable member (20) toward the rear end of the body.

9. The writing instrument as claimed in claim 7 or 8, wherein the movable member has a central duct (24) allowing at least one lead to pass through and wherein the first and second ramps (23, 26) are respectively
5 formed by a first and a second pair of inclined surfaces situated either side of said central duct.

10. The writing instrument as claimed in any one of claims 7 to 9, wherein a lead storage compartment (22b)
10 is secured to the movable member (20) and extends up to a rear end provided with a rear button (46, 47) emerging from the rear end of the body.

11. The writing instrument as claimed in any one of
15 claims 7 to 10, wherein a lead-guide tip (5) is mounted so as to slide in the front end of the body between a retracted position and a protruding position, and wherein the first movement of the movable member (20) is suitable for advancing and opening the chuck (30),
20 and the second movement of the movable member is suitable for pushing the lead-guide tip (5) into the protruding position.